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Product datasheet for MG202248

Clec4n (NM_020001) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clec4n (NM_020001) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Clec4n
Synonyms:	Clec6a; Clecsf10; Nkcl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

```
>MG202248 representing NM_020001
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGCAGGAAAGACAATCCCAAGGGAAGGGAGTCTGCTGGACCCTGAGACTCTGGTCAGCTGCTGTGA
TTTCCATGTTACTCTTGAGTACCTGTTTCATTGCGAGCTGTGTGGTGACTTACCAATTTATTATGGACCA
GCCCAGTAGAAGACTATATGAACTTCACACATACCATTCCAGTCTCACCTGCTTCAGTGAAGGGACTATG
GTGTCAGAAAAAATGTGGGGATGCTGCCCAAATCACTGGAAGTCATTTGGCTCCAGCTGCTACCTCATTT
CTACCAAGGAGAACTTCTGGAGCACCAGTGAGCAGAACTGTGTTCAGATGGGGGCTCATCTGGTGGTGAT
CAATACTGAAGCGGAGCAGAATTTCATCACCCAGCAGCTGAATGAGTCACTTTCTTACTTCCTGGGTCTT
TCGGATCCACAAGGTAATGGCAAATGGCAATGGATCGATGATACTCCTTTCAGTCAAAATGTCAGGTTCT
GGCACCCCCATGAACCCAATCTTCCAGAAGAGCGGTGTGTTTCAATAGTTTACTGGAATCCTTCGAAATG
GGGCTGGAATGATGTTTTCTGTGATAGTAAACACAATTCAATATGTGAAATGAAGAAGATTTACCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag -  GTTTAA
```

Protein Sequence:

```
>MG202248 representing NM_020001
Red=Cloning site Green=Tags(s)

MVQERQSQGKGVCWTLRLWSAAVISMLLLSTCFIASCVVTYQFIMDQPSRRLYELHTYHSSLTCFSEGTM
VSEKMWGCCPNHWKSFGSSCYLISTKENFWSTSEQNCVQMGAHLVVINTEAEQNFITQQLNESLSYFLGL
SDPQGNGKWQWIDDTPFSQNVRFWHPHEPNLPEERCVSIVYWNPSKWGWNDVFCDSKHNSICEMKKIYL

TRTRPLE - GFP Tag -  V
```

Restriction Sites: SgfI-MluI

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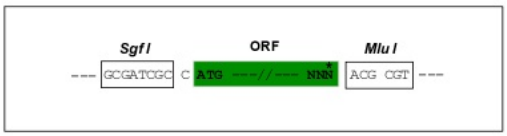
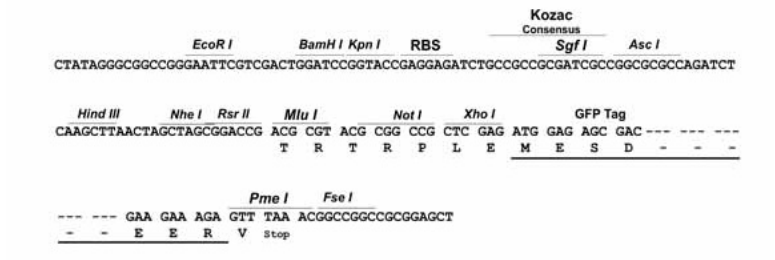
Cloning Scheme:





ACCN:	NM_020001
ORF Size:	627 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_020001.2
RefSeq Size:	1227 bp
RefSeq ORF:	630 bp
Locus ID:	56620
UniProt ID:	Q9JKF4
Cytogenetics:	6 58.3 cM

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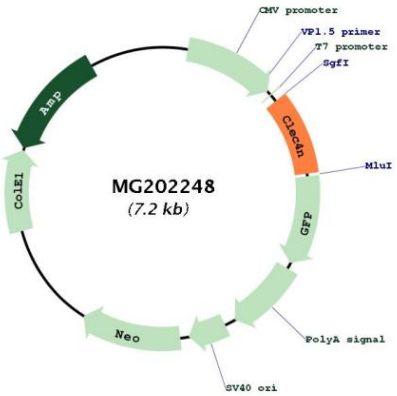
Gene Summary: Binds high-mannose carbohydrates in a Ca(2+)-dependent manner. Functional receptor for alpha-mannans on C.albicans hypheas. Plays an important role in the host defense against C.albicans infection by inducing TH17 cell differentiation. Recognizes also, in a mannose-dependent manner, allergens from house dust mite and fungi, by promoting cysteinyl leukotriene production. Recognizes soluble elements from the eggs of Shistosoma mansoni altering adaptive immune responses. Transduces signals through an Fc receptor gamma chain /FCER1G and Syk-CARD9-NF-kappa-B-dependent pathway.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG202248

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